

Title (en)

Brushless motor.

Title (de)

Bürstenloser Motor.

Title (fr)

Moteur sans balai.

Publication

**EP 0469822 B1 19941214 (EN)**

Application

**EP 91306916 A 19910729**

Priority

- JP 20329990 A 19900731
- JP 20330090 A 19900731

Abstract (en)

[origin: EP0469822A2] A brushless motor which comprises a rotor (2) having permanent magnets (3, 4) and a coil (5) for rotating the rotor (2). In the motor, a switching element (11) is connected between the coil (5) and a power source, a magnetic sensor (7) is provided for detecting the position of one of the permanent magnets (3, 4) of the rotor to control the switching operation of the switching element (11), and a delay circuit (15) is provided for delaying a signal from the magnetic sensor (7) and then applying the delayed signal to the switching element (11). With this arrangement, the apparent hysteresis width of the magnetic sensor can be broadened and such a problem can be solved that variations in the hysteresis width of the magnetic sensor results in the disabled rotation of the rotor. <IMAGE>

IPC 1-7

**H02K 29/08**; **H02P 6/02**

IPC 8 full level

**H02K 11/00** (2006.01); **H02K 21/24** (2006.01); **H02K 29/08** (2006.01); **H02P 6/00** (2006.01); **H02P 6/14** (2006.01); **H02P 6/16** (2006.01); **H02P 6/20** (2006.01)

CPC (source: EP US)

**H02K 11/33** (2016.01 - EP US); **H02K 21/24** (2013.01 - EP US); **H02K 29/08** (2013.01 - EP US); **H02P 6/15** (2016.02 - EP US); **H02P 6/16** (2013.01 - EP US); **H02P 6/20** (2013.01 - EP US); **H02P 6/26** (2016.02 - EP US)

Cited by

EP0639884A1; EP1271752A1

Designated contracting state (EPC)

DE GB

DOCDB simple family (publication)

**EP 0469822 A2 19920205**; **EP 0469822 A3 19920429**; **EP 0469822 B1 19941214**; DE 69105855 D1 19950126; DE 69105855 T2 19950720; DE 69115718 D1 19960201; DE 69115718 T2 19960829; EP 0574039 A1 19931215; EP 0574039 B1 19951220; US 5157311 A 19921020

DOCDB simple family (application)

**EP 91306916 A 19910729**; DE 69105855 T 19910729; DE 69115718 T 19910729; EP 93113407 A 19910729; US 73659191 A 19910726